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PROVISIONAL SPECIFICATION.

An Improved Method of and Apparatus for the Cure of Consumption.

I, CLEMENS DÖRR, of Germersheim, Germany, Architect, do hereby declare the nature of this invention to be as follows :—

This invention refers to a method of and apparatus for the cure of consumption. The method consists in acting by massage on the chest behind and in front of the
5 regions which cover the so called lung-points for the purpose of determining a flow of blood towards the lungs. The massage operation is effected by means of a shower-bath for instance or steam, water or air ; jets of the particular substance being directed under pressure on to the particular parts of the body. For this
10 purpose the upper part of the body is covered with a vest-like garment which is provided with openings communicating with tubes which convey the substance to the places where the jets are to strike the body.

The patient must be placed on a bed in such a position that the chest may be as low as possible whilst the legs, arms and head are high up so as to determine a flow of blood towards the lungs.

15 Dated the 19th day of February 1896.

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Agent for the Applicant.

COMPLETE SPECIFICATION.

20 An Improved Method of and Apparatus for the Cure of Consumption.

I, CLEMENS DÖRR, of Germersheim on the Rhine, in the Kingdom of Bavaria, German Empire, Municipal Architect, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly
25 described and ascertained in and by the following statement :—

The present invention relates to a new process, which is chiefly intended for the treatment of persons suffering from pulmonary tuberculosis, and, is new and peculiar as well, in regard to the manner of the operations to be undertaken for such purpose, as to the apparatus to be applied therefor.

30 The new process proceeds from the known fact, that in persons affected by lung disease the upper parts of the upper lobes, the so-called apexes are always attacked first. These parts evidently suffer from a deficiency of blood, which is a natural consequence of the upright attitude of the person, as owing to the action of gravitation the blood tends more towards the lower parts of the lungs. The correctness of
35 this is proved by a similar appearance in anthropomorphous apes, which have already partially adopted the erect attitude of man, whilst no such observation has

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been made in regard to any other mammals whose backbones take a horizontal position. According to the teaching of Professor Hans Buchner, of Munich respecting the bactericidal action of the blood serum, however, the affection of the upper parts of the lungs is to be attributed directly to their poorness of blood. In the present invention the attempt is made to cure consumption by a corresponding increased flow of blood to the upper parts of the lungs. 5

This is effected by greatly heating the upper part of the thorax with water, steam, or air, as well as by massage of the upper part of the body in the direction of the apexes of the lungs, whereby an increased flow of blood to the lungs is obtained, and then by the simultaneous raising of the arms and legs or head, the consequence of which is that the blood does not flow to these parts in the normal manner, the blood is caused to stream into the lungs where it is retained. 10

The accompanying drawings represent an apparatus constructed according to this principle.

Figure 1, is a front view of the apparatus, with a patient undergoing treatment placed therein. 15

Figure 1^A, is a vertical section through the principal part of the apparatus.

Figure 2, is a side section of the same.

Figure 3 is a plan view.

Figures 4 and 5, are respectively front and side views of the vest-like covering which forms one part of the apparatus, and is intended for use in the wrapping up of the thorax. 20

In the present case the effect of the massage on the body is obtained by means of a spray or jet-bath of water, steam, or air. The medium employed can be heated by a suitable apparatus for application to the part of the body in question. In consequence of its own weight or by means of a pump (B) the employed medium is carried through the conduit pipe (1) in which is a regulator cock, to the heating apparatus (A). The last named is really a boiler with fire-place and allows the heated water, steam, or air to pass through the pipes (2) and (3) in an expanded form. The pipes penetrate the back of the frame intended for the reception of the patient and consisting of the principal part (F), to which movable pieces or supports (H) and (H¹) are attached at the foot and at the head. 25 30

The patient lying on the frame or couch is now wrapped in the vest-like covering (E), which covers the part of the body where the lungs are situated, and is specially illustrated in Figures 4 and 5. This covering consists of elastic material and resembles a vest with openings for the neck, body, and the two arms. Owing to its elasticity, this covering can be drawn over the head without the necessity to make any fastening at the side, and then fits air-tight at the neck, on the body below the nipples, and at both armpits, this being effected by a suitable draught excluder, preferably consisting of three layers with ruffles on the inside. The covering (E) is perforated and furnished with nozzles in those parts of it which correspond with the apexes of the lungs, on the front and back of the body. In order to render possible the connection of the pipe (4) with the conduit pipes (2) and (3), in the different cases, the pipes (2) and (3) are made elastic or at least so arranged that they can be lengthened or shortened in a telescopic fashion and can be turned on their longitudinal axes, so that they can be brought to bear on the body to be treated in the manner desired. The stream acting on the body brings about the effect mentioned in the introduction, whereupon the medium (water, steam, or air) is collected in the space between the body and the covering (E), finally escaping through the outlet opening (J). The water may be received in a vessel (G). 35 40 45 50

For raising the arms a support (K) of the nature of a trapezium is provided. The horizontal connecting bar of this support is grasped by the patient with his hands.

The treatment of the patient is as follows:—The vest-like covering (E) is first put on him, then he is laid on the couch or bed, whilst under him are inflatable elastic cushions (air cushions) fixed or mounted on a slide. The adjustable parts (H) 55

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and (H¹) are hereupon raised as high as the case will allow. The patient grasps the rod (K), whereupon the joining of the pipes (2), (3) and (4) to the nozzles (5) follows. According to the nature of the medium employed, a suitably heated and strong stream is now directed to the lung apexes, this process lasting a certain time and being repeated at intervals.

As a resting place for the patient, a cot or hammock may also be used, consisting of a spring frame serving for the suspension of a net, the foot and head parts of which are held apart and are of equal breadth, the foot part being longer than the part for the head, the frame being furnished with an adjustable hanging contrivance.

Further a couch with adjustable seat, head piece, and movable arm pieces may be used for the placing of the patient, or a couch with adjustable parts for the head, legs and arms respectively. It is also possible for the same purpose to employ webbing in conjunction with an adjustable part for the feet, in connection with which a receptacle may be advantageously applied to the lower part of the frame supporting the webbing for the purpose of receiving the liquid resulting from the treatment.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is :

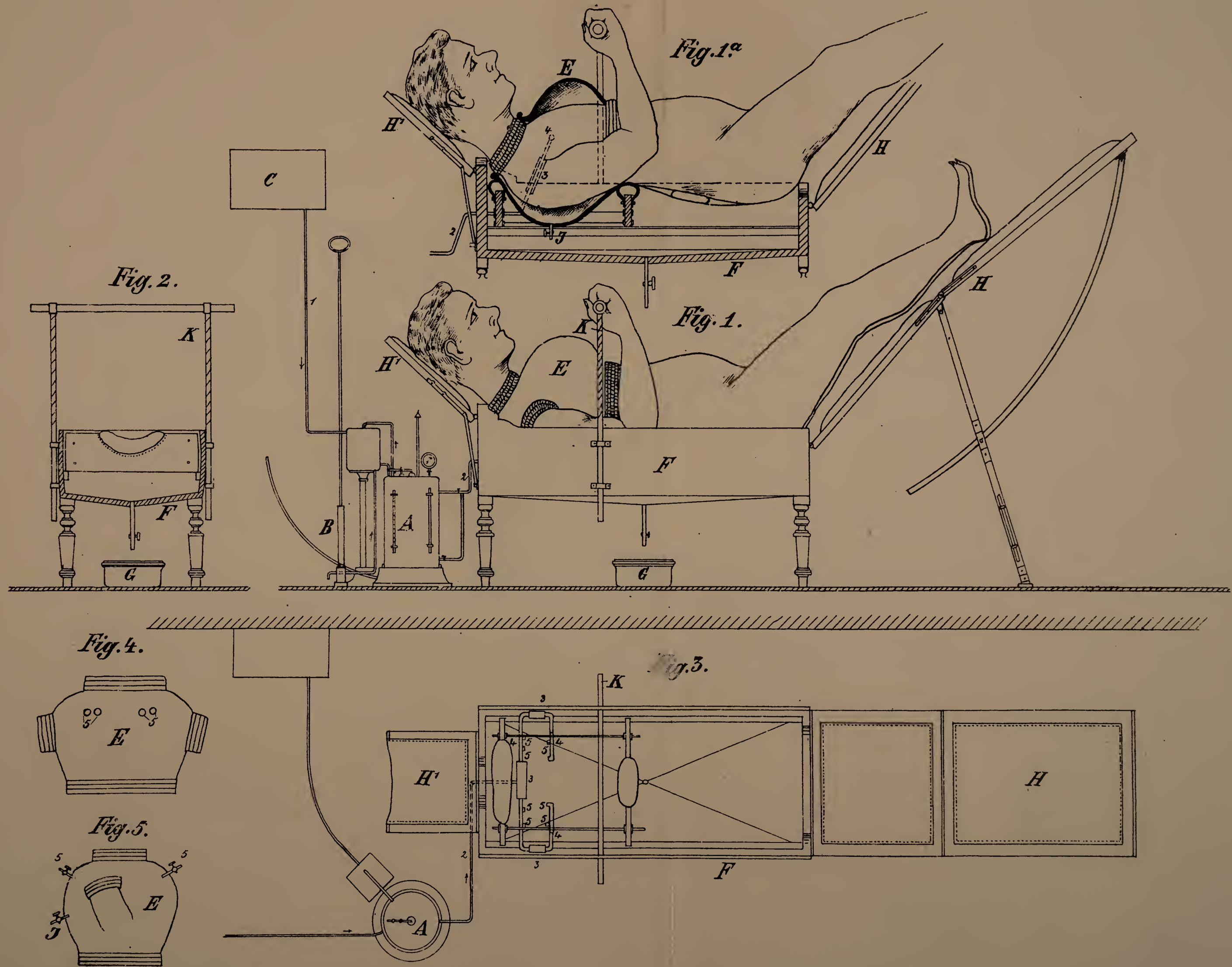
Firstly. A process for the treatment of persons affected by disease of the lungs, characterized by a massage operation effected by a spray or jet-bath with a certain medium such as hot water, air, or steam on the lungs with the simultaneous raising of the remaining parts of the body especially the extremities of the arms and legs and the head.

Secondly. For the carrying out of the process claimed under Claim 1, an adjustable couch or bed for the patient in combination with an elastic vest-like covering which covers the upper part of the patient's body from the neck to below the breast and fastening tight thereto as well as under the armpits, in which vest-like covering, nozzles intended for conducting the expanded steam, hot water, air or the like discharge, are provided.

Dated the 14th day of November 1896.

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[This Drawing is a reproduction of the Original on a reduced scale.]

